This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *July 31, 1915.*

MONTHLY LIST OF PUBLICATIONS.

[JULY, 1915.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of any of the publications listed herein, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

REPORTS.

Report of the Alaska Agricultural Experiment Stations. 1914. Pp. 96, pls. 12. July 22, 1915. Price, 20 cents.

Report of the Porto Rico Agricultural Experiment Station, 1914. Pp. 35, pls. 3. July 10, 1915. Price, 10 cents.

SERIALS.

Journal of Agricultural Research. Vol. 4, No. 4. July, 1915.

Contents: Rheosporangium Aphanidermatus, a New Genus and Species of Fungus Parasitic on Sugar-Beets and Radishes. By H. A. Edson.—Heredity of Color in Phlox Drummondii. By Arthur W. Gilbert.—Asparagus-Beetle Egg Parasite. By F. A. Johnston.—Inheritance of Certain Characters of Grapes. By U. P. Hedrick and R. D. Anthony.—Ascochyta Clematidina, the Cause of Stem-Rot and Leaf-Spot of Clematis. By W. O. Gloyer.—Methods of Bacterial Analysis of Air. By G. L. A. Ruehle.—Wallrothiella Arceuthobii. By James R. Weir. Pp. 279–378, pls. 16, figs. 2. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $2.50 per year, 12 numbers.

Experiment Station Record, Vol. XXXII, No. 9. Abstract number. July 10, 1915. E. W. Allen, Ph. D.; Editor. Pp. 801–900. Price, 15 cents.

Same, Vol. XXXIII, No. 1. July, 1915. Pp. 1–100. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 1, No. 3, July 15, 1915. Pp. 12. (Bureau of Crop Estimates.)

The Monthly Crop Report is a resumption, in size and nature of material, of the Crop Reporter, which was discontinued with the issue of June 19, 1914. It contains data relating to agriculture, including estimates of acreage, condition, yield, prices and value of crops and live stock. The publication of the Agricultural Outlook, which formerly contained this matter, was discontinued with the issue of April, 1915.

SOIL SURVEYS.

Soil Survey of Bullock County, Alabama. By Howard C. Smith, of the U. S. Department of Agriculture and W. E. Wilkinson, of the Alabama Department of Agriculture and Industries. Pp. 50, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of the Fort Lauderdale Area, Florida. By Mark Baldwin, H. W. Hawker, and Carl F. Miller. Pp. 52, pls. 9, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of the Indian River Area, Florida. By Charles G. Mooney and Mark Baldwin. Pp. 47, pl. 1, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Wilkinson County, Mississippi. By W. E. Tharp, of the U. S. Department of Agriculture, and W. M. Spann, of the Mississippi Geological Survey. Pp. 52, pl. 1, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Jackson County, Tennessee. By R. F. Rogers, of the U. S. Department of Agriculture, and J. H. Derden, of the Tennessee Geological Survey. Pp. 29, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

BULLETINS.

Grades for Commercial Corn. By J. W. T. Duvel, Crop Technologist in Charge of Grain-Standardization Investigations. Pp. 11, pl. 1, figs. 8. Contribution from the Bureau of Plant Industry. July 15, 1915. (Department Bulletin 168.) Price, 5 cents.

Of especial interest to shippers, elevator men, and brokers.

The Cypress and Juniper Trees of the Rocky Mountain Region. By George B. Sudworth, Dendrologist. Pp. 36, pls. 26, map. 11. Contribution from the Forest Service. (Professional Paper.) July 17, 1915. (Department Bulletin 207.) Price, 25 cents.

This bulletin describes the distinguishing characters, geographic distribution, and forest habits of all known species of cypress and juniper growing within the Rocky Mountain Region.

The Naval Stores Industry. By A. W. Schorger, Chemist, and H. S. Betts, Engineer, Forest Products Laboratory. Pp. 58, pls. 11, figs. 9. Contribution from the Forest Service. July 28, 1915. (Department Bulletin 229.) Price, 15 cents.

This bulletin is of interest to producers and users of naval stores.

Oil-Mixed Portland Cement Concrete. By Logan Waller Page, Director, Office of Public Roads. Pp. 26, pls. 6, figs. 7. Contribution from the Office of Public Roads. July 14, 1915. (Department Bulletin 230.) Price, 10 cents.

This bulletin is a revision of Bulletin 46, Office of Public Roads, and is of interest to those using moisture-proof cement concrete.

Utilization and Management of Lodgepole Pine in the Rocky Mountains. By D. T. Mason, Assistant District Forester, District 1. Pp. 54, pls. 7, fig. 1. Contribution from the Forest Service. (Professional Paper.) July 12, 1915. (Department Bulletin 234.) Price, 15 cents.

Contains information regarding the ownership and supply, character and uses of the wood, methods of lumbering and management of lodgepole stands.

Sugar Beets: Preventable Losses in Culture. By Harry B. Shaw, Assistant Pathologist, Cotton and Truck Disease and Sugar-plant Investigations. Pp. 21, pls. 8, figs. 5. Contribution from the Bureau of Plant Industry. July 14, 1915. (Department Bulletin 238.) Price, 10 cents.

Of interest to sugar-beet growers generally.

Pasteurizing Milk in Bottles and Bottling Hot Milk Pasteurized in Bulk. By S. Henry Ayers, Bacteriologist, and W. T. Johnson, jr., Scientific Assistant, Dairy Division. Pp. 27, figs. 10. Contribution from the Bureau of Animal Industry. (Professional Paper.) July 13, 1915. (Department Bulletin 240.) Price, 5 cents.

This paper is of interest to milk dealers, health officials, and all who have to do with the milk supply of cities; it is suitable for distribution in all parts of the country.

Cone Beetles: Injury to Sugar Pine and Western Yellow Pine. By John M. Miller, Entomological Assistant, Forest Insect Investigations. Pp. 12, pls. 5, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) July 24, 1915. (Department Bulletin 243.) Price, 10 cents.

This bulletin is the result of field observations made in Oregon and California. It is suitable for distribution on the Pacific coast.

Life History of Shortleaf Pine. By Wilbur R. Mattoon, Forest Examiner. Pp. 46, pls. 10, figs. 12. Contribution from the Forest Service. (Professional Paper.) July 21, 1915. (Department Bulletin 244.) Price, 15 cents.

This bulletin gives in detail the life history of shortleaf pine, known under various names throughout the South, where only it is found in commercial quantities.

Further Experiments in the Destruction of Fly Larvae in Horse Manure. By F. C. Cook, Physiological Chemist, Bureau of Chemistry, R. H. Hutchison, Scientific Assistant, Bureau of Entomology, and F. M. Scales, Assistant Mycologist, Bureau of Plant Industry. Pp. 22, pl. 1, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) July 20, 1915. (Department Bulletin 245.) Price, 5 cents.

This bulletin reviews some recent experiments whose results point to an economical, practical, and effective way of destroying fly larvae by chemically treating manure. It includes an account of the effects of certain larvicides on the value of manure, as estimated by chemical and bacteriological analyses.

Vitrified Brick Pavements for Country Roads. By Vernon M. Peirce, Chief of Construction, and Charles H. Moorefield, Senior Highway Engineer. Pp. 38, pls. 10, figs. 3. Contribution from the Office of Public Roads. July 24, 1915. (Department Bulletin 246.) Price, 10 cents.

This bulletin describes methods of building and estimates the cost and maintenance of brick paving.

A Disease of Pine Caused by Cronartium Pyriforme. By George G. Hedgcock, Pathologist, and William H. Long, Forest Pathologist, Investigations in Forest Pathology. Pp. 20, pls. 2, fig. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) July 20, 1915. (Department Bulletin 247.) Price, 5 cents.

This bulletin discusses an important disease of pines which is now for the first time fully described. It is intended for circulation among botanists, foresters, nurserymen, State inspectors, and horticulturists.

Portland Cement Concrete Pavements for Country Roads. By Charles H. Moorefield and James T. Voshell, Senior Highway Engineers. Pp. 34, pls. 11. Contribution from the Office of Public Roads. July 26, 1915. (Department Bulletin 249.) Price, 15 cents.

This bulletin contains reliable information on the construction of Portland cement concrete pavements for country roads. Practical instructions for highway engineers and all others interested in road making are given.

Food Plants of the Gipsy Moth in America. By F. H. Mosher, Entomological Assistant, Gipsy Moth and Brown-Tail Moth Investigations. Pp. 39, pls. 6. Contribution from the Bureau of Entomology. (Professional Paper.) July 24, 1915. (Department Bulletin 250.) Price, 10 cents.

This bulletin reports a series of investigations conducted in 1912, 1913, and 1914 to determine the favored food plants of the gipsy moth. The subject is of interest to entomologists and to State authorities engaged in the fight against the gipsy moth in the northeastern States.

The Calosoma Beetle (Calasoma Sycophanta) in New England. By A. F. Burgess, In Charge of Gipsy Moth and Brown-tail Moth Investigations, and C. W. Collins, Entomological Assistant. Pp. 40, pls. 7, map. Contribution from the Bureau of Entomology. (Professional Paper.) July 27, 1915. (Department Bulletin 251.) Price, 15 cents.

A technical description of an enemy of the gipsy moth and a report on the results of its introduction into the district ravaged by this insect.

Douglas Fir Pitch Moth. By Josef Brunner, Entomological Assistant, Forest Insect Investigations. Pp. 23, figs. 9. Contribution from the Bureau of Entomology. (Professional Paper.) July 22, 1915. (Department Bulletin 255.) Price, 5 cents.

This bulletin is of interest to entomologists as a contribution to their specialty and to owners and manufacturers as a business proposition.

Katydids Injurious to Oranges in California. By J. R. Horton and C. E. Pemberton, Scientific Assistants, Tropical and Subtropical Fruit Insect Investigations. Pp. 24, pls. 5, figs. 16. Contribution from the Bureau of Entomology. (Professional Paper.) July 27, 1915. (Department Bulletin 256.) Price, 10 cents.

Technical descriptions of two katydids causing serious damage to oranges in California are contained in this bulletin. Remedies and methods of control are discussed.

Progress Reports of Experiments in Dust Prevention and Road Preservation, 1914. Pp. 44. Contribution from the Office of Public Roads. (Professional Paper.) July 12, 1915. (Department Bulletin 257.) Price, 5 cents.

This bulletin reports the results from a number of experiments in dust prevention and road preservation conducted by the Office of Public Roads in 1914. The materials used and methods employed in the experiments, the several kinds of roads and varying conditions of traffic, and analyses of materials and cost data are given.

Lessons in Elementary Agriculture for Alabama Schools Outlined by Months. By E. A. Miller, Specialist in Agricultural Education. Pp. 36. Contribution from the Office of Experiment Stations. July 13, 1915. (Department Bulletin 258.) Price, 5 cents.

This bulletin is prepared especially for the use of rural school-teachers in Alabama.

Studies on Changes in the Degree of Oxidation of Arsenic in Arsenical Dipping Baths. By Robert M. Chapin, Senior Biochemist, Biochemic Division. Pp. 12, figs. 2. Contribution from the Bureau of Animal Industry. (Professional Paper.) July 13, 1915. (Department Bulletin 259.) Price, 5 cents.

This bulletin will be of interest to cattle raisers who employ arsenical dipping baths in eradicating the Texas-fever ticks.

American Plum Borer. By E. B. Blakeslee, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 31, pls. 3, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) July 19, 1915. (Department Bulletin 261.) Price, 5 cents.

This bulletin gives the life history, habits description of this insect, and methods of combating it.

The Parandra Borer as an Orchard Enemy. By Fred E. Brooks, Entomological Assistant, Deciduous-Fruit Insect Investigations. Pp. 7, pls. 4. Contribution from the Bureau of Entomology. July 19, 1915. (Department Bulletin 262.) Price, 5 cents.

This bulletin describes the Parandra borer as an enemy of fruit trees, gives its history and distribution, and suggests methods of combating it. It will be of interest throughout the greater portion of the United States.

The Cranberry Rootworm. By H. B. Scammel, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 8, pls. 2. Contribution from the Bureau of Entomology. (Professional Paper.) July 19, 1915. (Department Bulletin 263.) Price, 5 cents.

This bulletin describes the life history and habits of the cranberry rootworm and recommends measures for its control.

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Crop Production in the Great Plains Area. Relation of Cultural Methods to Yields. By E. C. Chilcott, Agriculturist in Charge, and J. S. Cole and W. W. Burr, Assistants, Office of Dry-Land Agriculture. Pp. 28, fig. 1. Contribution from the Bureau of Plant Industry. July 20, 1915. (Department Bulletin 268.) Price, 5 cents.

This bulletin is intended for all who are interested in the agricultural possibilities of the Great Plains area.

Cereal Experiments at the Williston Station. By F. Ray Babcock, Scientific Assistant, Office of Cereal Investigations. Pp. 36, figs. 11. Contribution from the Bureau of Plant Industry. July 29, 1915. (Department Bulletin 270.) Price, 10 cents.

This bulletin presents the results of varietal tests with cereals which have been conducted at Williston, N. Dak., Agricultural Experiment Station. The subject is of interest to experimenters throughout the Great Plains area, and especially in western North Dakota and eastern Montana.

Factors Governing the Successful Shipment of Red Raspberries from the Puyallup Valley. By H. J. Ramsey, Pomologist in Charge of Fruit-Handling and Storage Investigations, Office of Horticultural and Pomological Investigations. Pp. 37, figs. 26. Contribution from the Bureau of Plant Industry. July 8, 1915. (Department Bulletin 274.) Price, 10 cents.

This bulletin is of interest to growers and shippers of berries generally, and especially to shippers of red raspberries, who are required to meet special problems.

Diversfied Agriculture and the Relation of the Banker to the Farmer. By Bradford Knapp, In Charge of Farmers' Cooperative Demonstration Work in the Southern States. Pp. 15. July 2, 1915. (Circular 50, Office of the Secretary.) Price, 5 cents.

The Hessian Fly Situation in 1915. By F. M. Webster, In Charge of Cereal and Forage Insect Investigations, and E. O. G. Kelly, Entomological Assistant, Bureau of Entomology. Pp. 10, figs. 5. July 2, 1915. (Circular 51, Office of the Secretary.) Price, 5 cents.

The Work of the Huntley Reclamation Project Experiment Farm in 1914. By Dan Hansen, Farm Superintendent. Pp. 23, figs. 8. (Bureau of Plant Industry.) July 10, 1915. Price, 5 cents.

The Work of the Truckee-Carson Reclamation Project Experiment Farm in 1914. By F. B. Headley, Farm Superintendent. Pp. 12, fig. 1. Bureau of Plant Industry. July 28, 1915. Price, 5 cents.

This publication is intended for distribution among settlers on and others interested in this project.

FARMERS' BULLETINS.

Control of the Citrus Thrips in California and Arizona. By J. R. Horton, Scientific Assistant, Tropical and Subtropical Fruit Insect Investigations. Pp. 15, figs. 7. Contribution from the Bureau of Entomology. July 8, 1915. (Farmers' Bulletin 674.)

This bulletin is of interest to the citrus growers of the Pacific coast and the Southwest.

The Roundheaded Apple-Tree Borer. By Fred E. Brooks, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 20, figs. 19. Contribution from the Bureau of Entomology. July 6, 1915. (Farmers' Bulletin 675.)

This bulletin describes an insect which in the larval or grub stage is most destructive to apple orchards in the eastern half of the United States. Methods for its control are given.

House Flies. By L. O. Howard, Chief of the Bureau of Entomology, and R. H. Hutchison, Scientific Assistant. Pp. 22, figs. 15. Contribution from the Bureau of Entomology. July 14, 1915. (Farmers' Bulletin 679.)

This bulletin supersedes Farmers' Bulletin No. 459. It will be of interest wherever breeding places for flies are found.

The Silverfish: An Injurious Household Insect. By C. L. Marlatt, Entomologist. Pp. 4, figs. 2. Contribution from the Bureau of Entomology. July 14, 1915. (Farmers' Bulletin 681.)

This bulletin is of special interest to housekeepers throughout the United States. It is a revision of Circular No. 49 of the Bureau of Entomology, U. S. Department of Agriculture.

A Simple Trap Nest for Poultry. By Alfred R. Lee, Animal Husbandman in Poultry Investigations. Pp. 3, figs. 2. Contribution from the Bureau of Animal Industry. July 9, 1915. (Farmers' Bulletin 682.)

This manuscript gives full directions for making a trap nest. It will be of interest to poultry raisers generally.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, Nos. 16, 17, 18, 19, July, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

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